

Showline

SL SUNLED 10



USER'S MANUAL

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SL SUNLED 10 LED Luminaire installation & User's Manual
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IMPORTANT INFORMATION

Warnings and Notices

When using electrical equipment, basic safety precautions should always be followed including the following:



- a. **READ AND FOLLOW ALL SAFETY INSTRUCTIONS.**
- b. Do not use outdoors.
- c. Do not mount near gas or electric heaters.
- d. Equipment should be mounted in locations and at heights where it will not readily be subject to tampering by unauthorized personnel.
- e. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- f. Do not use this equipment for other than intended use.
- g. Refer service to qualified personnel.

SAVE THESE INSTRUCTIONS.



WARNING: You must have access to a mains circuit breaker or other power disconnect device before installing any wiring. BE sure that power is disconnected by removing fuses or turning the mains circuit breaker off before installation. Installing the device with power on may expose you to dangerous voltages and damage the device. A qualified electrician must perform this installation.

WARNING: Refer to National Electrical Code® and local codes for cable specifications. Failure to use proper cable can result in damage to equipment or danger to personnel.

WARNING: This equipment is intended for installation in accordance with the Nation Electric Code® and local regulations. It is also intended for installation in indoor applications only. Before any electrical work is performed, disconnect power at the circuit breaker or remove the fuse to avoid shock or damage to the control. It is recommended that a qualified electrician perform this installation.

Additional Resources for DMX512

For more information on installing DMX512 control systems, the following publication is available for purchase from the United States Institute for Theatre Technology (USITT), "Recommended Practice for DMX512: A Guide for Users and Installers, 2nd edition" (ISBN: 9780955703522). USITT Contact Information:

USITT
315 South Crouse Avenue, Suite 200
Syracuse, NY 13210-1844
Phone: 1.800.938.7488 or 1.315.463.6463
www.usitt.org

Showline Limited Two-Year Warranty

Showline offers a two-year limited warranty of its luminaires against defects in materials or workmanship from the date of delivery. A copy of Showline two-year limited warranty containing specific terms and conditions can be obtained by contacting your local Showline office.

TABLE OF CONTENTS

TABLE OF CONTENTS

PREFACE

About this Manual	3
Included Items	3

SL SUNLED 10 LED LUMINAIRE OVERVIEW

SL SUNLED 10 LED Luminaire Components	4
Major Luminaire Components	4
LCD Display / Menu System	5

INSTALLATION AND SET UP

Power Requirements	6
AC Power Operation	6
Connecting Power	6
Connecting SL SUNLED 10 LED Luminaires to AC Power	6
Connecting to the DMX512 Network	7
Mounting Luminaire	8

OPERATION AND PROGRAMMING

LCD Display and Menu System	9
LCD Display and Menu System Operation	9
Edit a Preset	10
Chase	10
DMX Address	10
SL SUNLED 10 LED Luminaires Menu Tree	11
Dimming Curve Selection	12
Master / Slave Operational Mode	13

DMX CONTROL

Chase	14
Chase Speed	15
DMX Map	16
DMX Detail	17
SL SUNLED 10 LED Luminaire RDM Parameter IDs	18

CLEANING AND CARE

Special Cleaning and Care Instructions	22
Front Lens Cleaning	22
Service and Maintenance	22

TECHNICAL SPECIFICATIONS

SL SUNLED 10 LED Luminaire Operational Specifications	23
SL SUNLED 10 LED Luminaire Dimensions	23

PREFACE

1. About this Manual

The document provides installation and operation instructions for the following products:

- SL SUNLED 10 LED Luminaire

Please read all instructions before installing or using this product. *Retain this manual for future reference.* Additional product information and descriptions may be found on the product specification sheet.

Note: The SL SUNLED 10 LED Luminaire is universal voltage 100 to 240 VAC (auto-ranging).

2. Included Items



Each SL SUNLED 10 LED Luminaire includes the following items:

- SL SUNLED 10 LED Luminaire
- Installation and User's Manual (*this document*)
- Power Cables with bare end

SL SUNLED 10 LED LUMINAIRE OVERVIEW

1. SL SUNLED 10 LED Luminaire Components

Major Luminaire Components

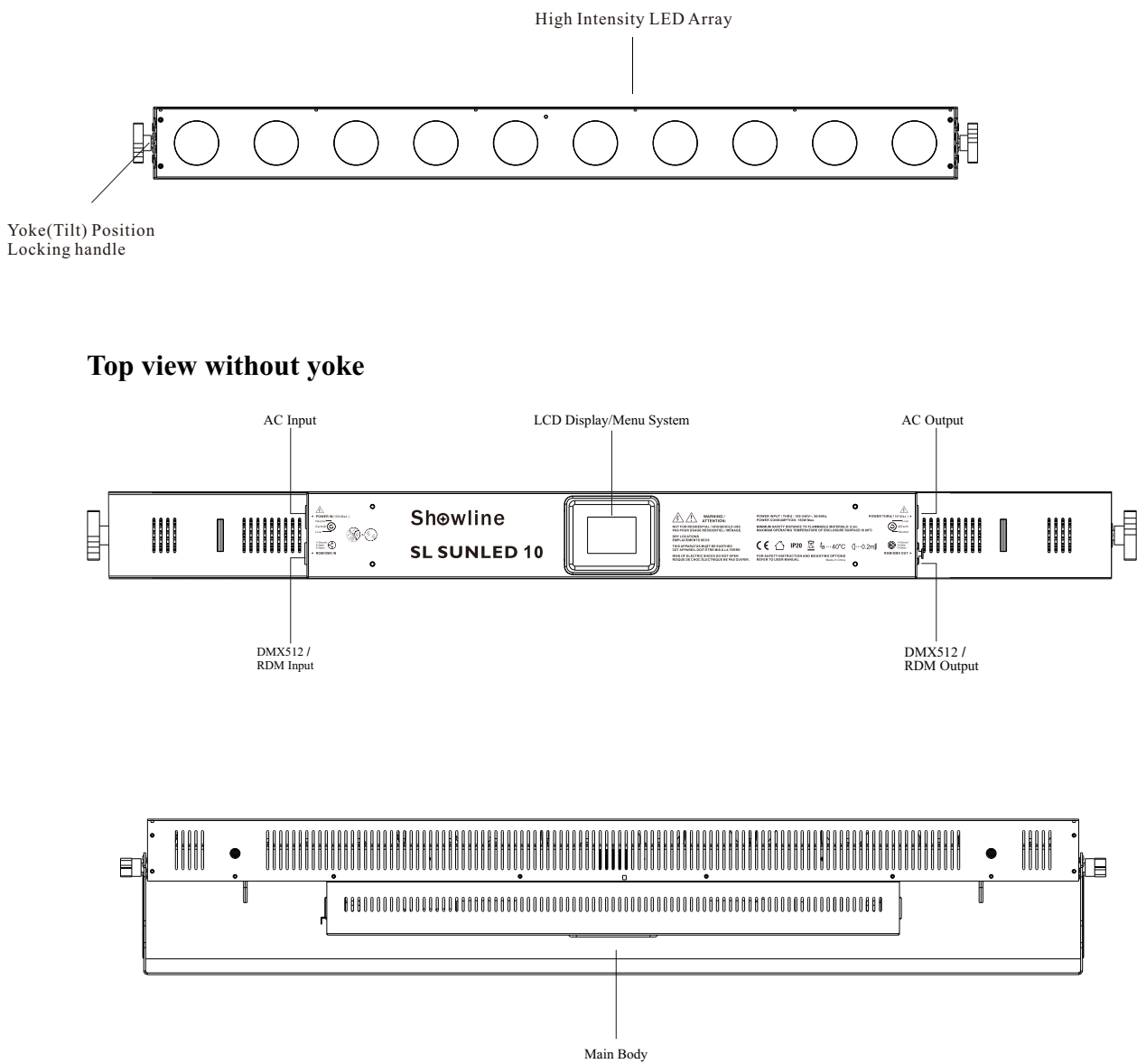
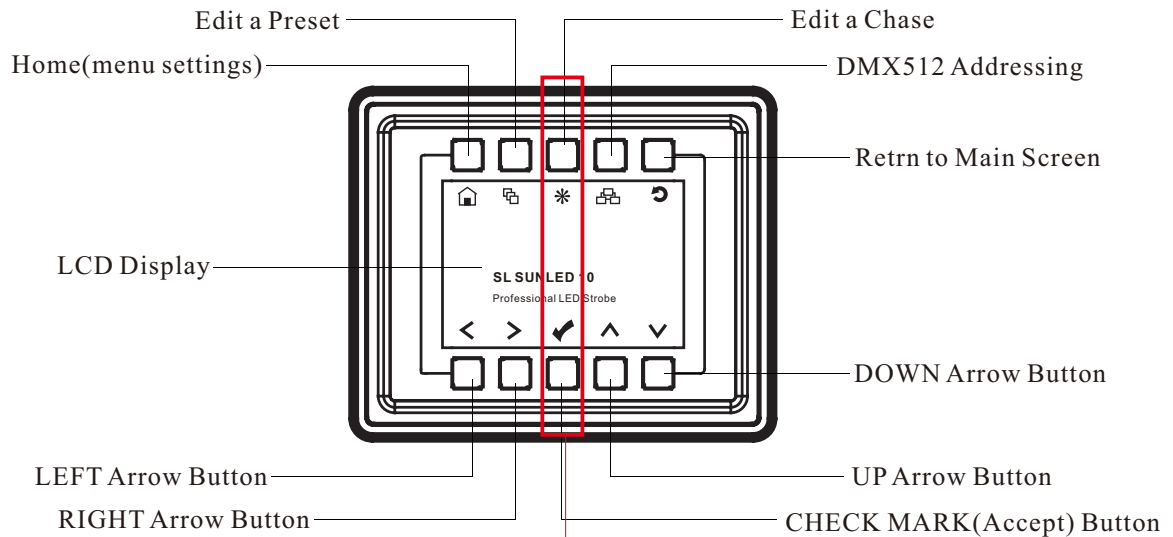


Figure 1: SL SUNLED 10 LED Luminaire Components

LCD Display / Menu System



NOTE: Menu rotates with orientation of luminaire and menu buttons are always in the same position(with rotation of menu)

To rotate menu 180 degrees from current orientation, press and hold the two center buttons for 2 seconds.

Figure 2: LCD Display & Menu System

Note: For Menu operation and programming details, refer to "LCD Display and Menu System" on page 9.

INSTALLATION AND SET UP

1. Power Requirements

The SL SUNLED 10 LED Luminaire operates on AC input voltages from 100 to 240 VAC.



WARNING! This unit does not contain an ON/OFF switch. Always disconnect power input cable to completely remove power from unit when not in use.

AC Power Operation

When connected to an AC source, the unit operates on 100 to 240 volts AC (+/- 10%, auto-ranging). The luminaire contains an auto-ranging power supply. Each luminaire can draw up to 150 Watts.



WARNING! Maximum amount of units that may be daisy-chained is (A) 11 units 100 ~ 120VAC (15 Amps) or (B) 20 units 230 ~ 240VAC (15 Amps).

Table 1: SL SUNLED 10 LED Luminaire Voltage (VAC) vs. Current*

Voltage (AC)	Total Current (A)	Voltage (AC)	Total Current (A)
100	1.50	180	0.83
110	1.36	190	0.79
120	1.25	200	0.75
130	1.15	210	0.71
140	1.07	220	0.68
150	1.00	230	0.65
160	0.94	240	0.62
170	0.88		

2. Connecting Power

Units can be powered in one of two ways:

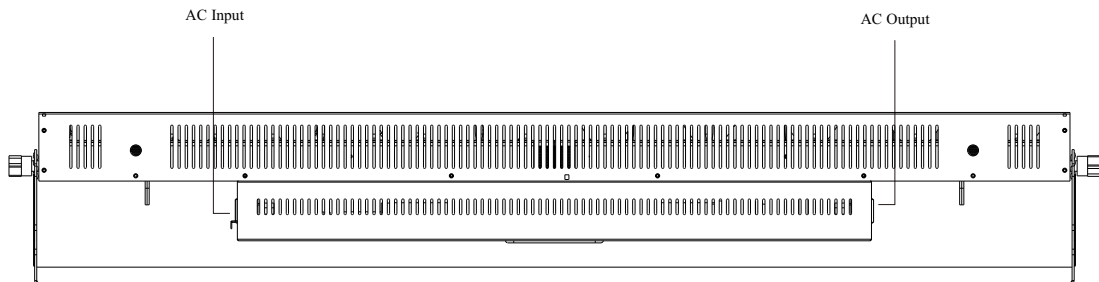
- Direct connection to an AC power source using an AC input cable with connector.
- Connection from the AC output of another SL SUNLED 10 LED Luminaire. When using this method, it is very important not to connect any other type of equipment device.



WARNING! Only connect other SL SUNLED 10 LED Luminaires to the AC Output (Thru) connector of an SL SUNLED 10 LED Luminaire.

Connecting SL SUNLED 10 LED Luminaires to AC Power

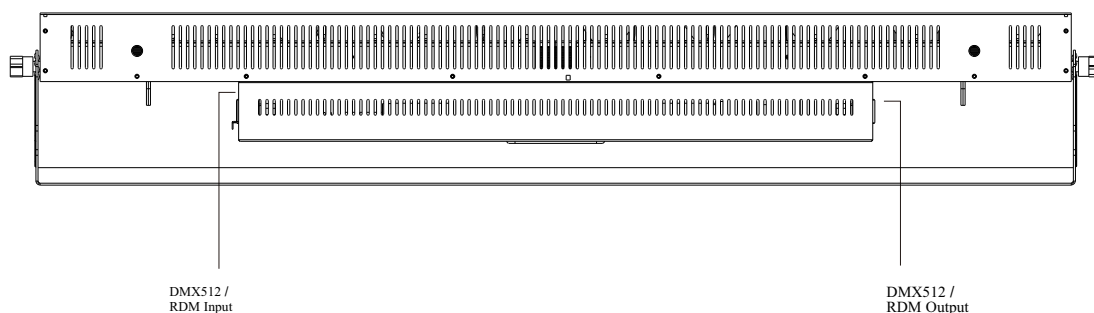
Table 2 on page 7 describes how to connect power to your SL SUNLED 10 LED Luminaire. Field wiring of the SL SUNLED 10 LED Luminaire is straight forward. A total of 3 wires/conductors is supplied from the unit. The following wiring scheme is used:

Table 2: SL SUNLED 10 LED Luminaire AC Input Connections**Back of Unit****Figure 3:** SL SUNLED 10 LED Luminaire AC Input & Output Connections

CAUTION: In the event the AC input cable of this luminaire is damaged, it must be replaced, by the user, with an approved cable through an Authorized Dealer or Service Center.

3. Connecting to the DMX512 Network

Basic DMX512 installation consists of connecting multiple SL SUNLED 10 LED Luminaires together (up to 32 luminaires) in "daisy-chain" fashion. A cable runs from the control console (or DMX512 control source) to the DMX connector on the first SL SUNLED 10 LED Luminaire. Another cable runs from the other DMX connector on the first unit to a DMX connector on the next SL SUNLED 10 LED Luminaire (or DMX512 device to be controlled).

**Figure 4:** SL SUNLED 10 LED Luminaire DMX512 Input / Output Connections

Note: For more information on DMX512 networking and systems, refer to ["Additional Resources for DMX512" on page 1](#). For SL SUNLED 10 LED Luminaire DMX Mapping, refer to ["DMX CONTROL" on page 13](#)

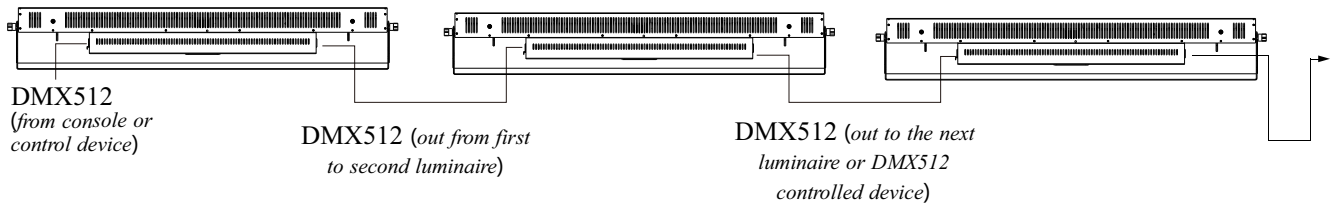


Figure 5: SL SUNLED 10 LED Luminaire - DMX512 Connections

4. Mounting Luminaire

The SL SUNLED 10 LED Luminaire is provided with an adjustable mount assembly. This assembly easily attaches and detaches from the luminaire via a two bolts. This mount assembly is designed to accept a variety of mounting hooks, clamps, etc. for hanging applications or stud adapters for stand mounting.

Simply attach hook, clamp, stud, etc. to the SL SUNLED 10 LED Luminaire mount assembly in the M10 hole.

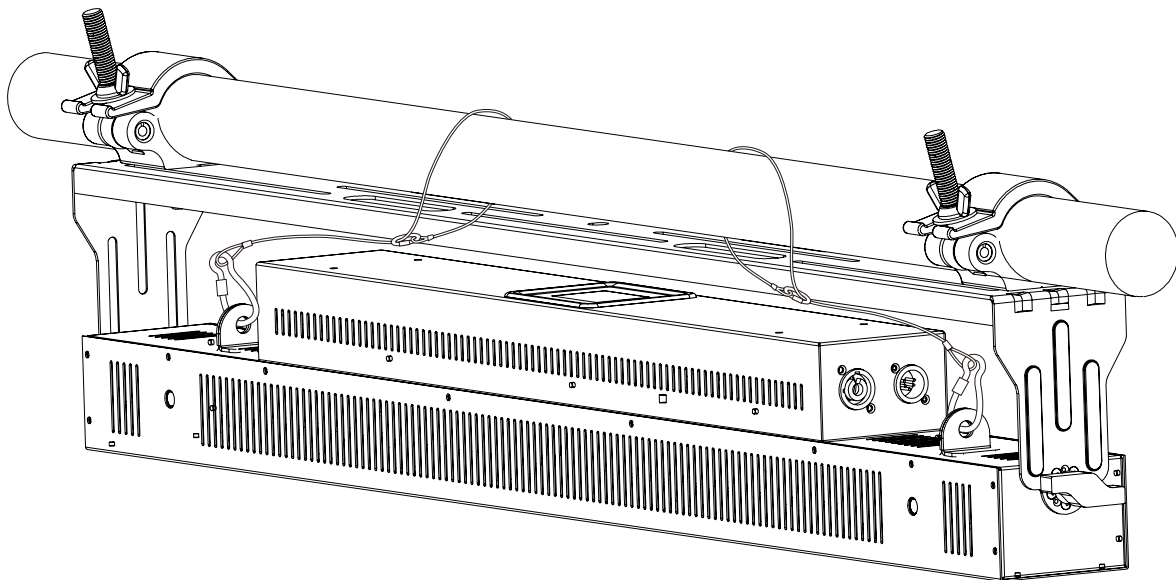


Figure 6: Mounting the fixture--Hanging Application

OPERATION AND PROGRAMMING

1. LCD Display and Menu System

The SL SUNLED 10 LED Luminaire's LCD Display and Menu System provides local control for accessing the following fixture's settings:

- Presets (Standard and User Defined)
- Effects(Chases - preloaded and user defined)
- Settings
- Lock fixture
- Password
- Status

Note: If there are multiple luminaires in a system, changes would need to be made at each LCD Menu as desired.

Upon power up, the LCD will display the main screen showing menu of SL SUNLED 10 LED. User can use “<” and “>” to select then enter the desired function menu.

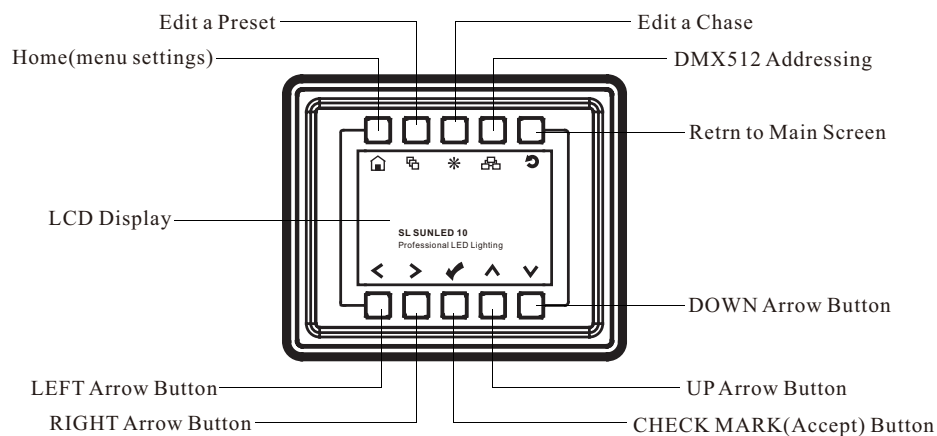


Figure 7: LCD Display and Menu System

2. LCD Display and Menu System Operation

The LCD Display Menu system consists of several categories. Upon power up, the LCD will display the main menu automatically. There are totally 6 menus available including Preset, Effects, Settings, Lock fixture, Password and Status. When the desired menu item is reached, press OK button to display the menu options and to navigate and configure the menu options as required.

To navigate and access menu settings/selections:

- Step 1. Make sure unit is powered and turned on.
- Step 2. Press the desired button to access menu categories.
- Step 3. Use “<” and “>” arrow buttons to navigate through the various options and settings.
- Step 4. Make changes as desired.
Press OK button to accept changes.

3. Quick Selection Buttons

When in Manual Mode, the SL SUNLED 10 can be accessed via the on-board LCD menu system or via three quick select buttons:

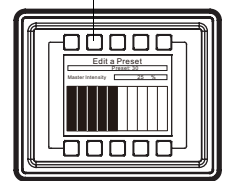
- Edit a Preset Button
- Edit a Chase Button
- DMX Address Button

Edit a Preset Button

To edit and save a Preset:

- Step 1. Press “Edit a Preset” button to access Preset Select.
- Step 2. Use LEFT and RIGHT arrow buttons to scroll through all presets and select Preset x(1 thru 31).
- Step 3. Use DOWN arrow button to select Master Intensity.
- Step 4. Use LEFT and RIGHT buttons to select through Pixel 1 to 10.
- Step 5. Use LEFT and RIGHT buttons to select the desired pixel.
- Step 6. When at desired pixel, use the UP and DOWN button to adjust the intensity.
- Step 7. When all the parameters are set, press the CHECK MARK(OK)button to save the preset.

Edit a Preset

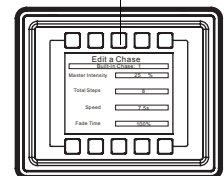


Edit a Chase Button

To edit and save a Chase:

- Step 1. Press “Edit a Chase” button to access Chase.
- Step 2. Use UP and DOWN arrow buttons to scroll through all menus, including Master Intensity, Total Steps, Speed and FadeTime.
- Step 3. Once at desired menu, use LEFT and RIGHT arrow buttons to adjust parameter value as desired. Once all values are adjusted as desired, press CHECK MARK(OK)button.

Edit a Chase

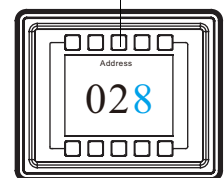


DMX Address Button

To edit and save a DMX Address

- Step 1. Press Address quick access button to access Settings.
- Step 2. Press CHECK MARK(OK)button to select a figure. The figure selected will be highlighted.
- Step 3. Use LEFT and RIGHT arrow button to select between the 3 figures. The figure selected will be highlighted.
- Step 4. Once at desired figure, use UP and DOWN arrow buttons to adjust parameter value as desired. Once all values are adjusted as desired, press CHECK MARK(OK)button.

Address



Note: For more information about Preset, Settings and Status, please refer to “SL SUNLED 10 LED Luminaire Menu Tree” on page 11.

4. SL SUNLED 10 LED Luminaire Menu Tree

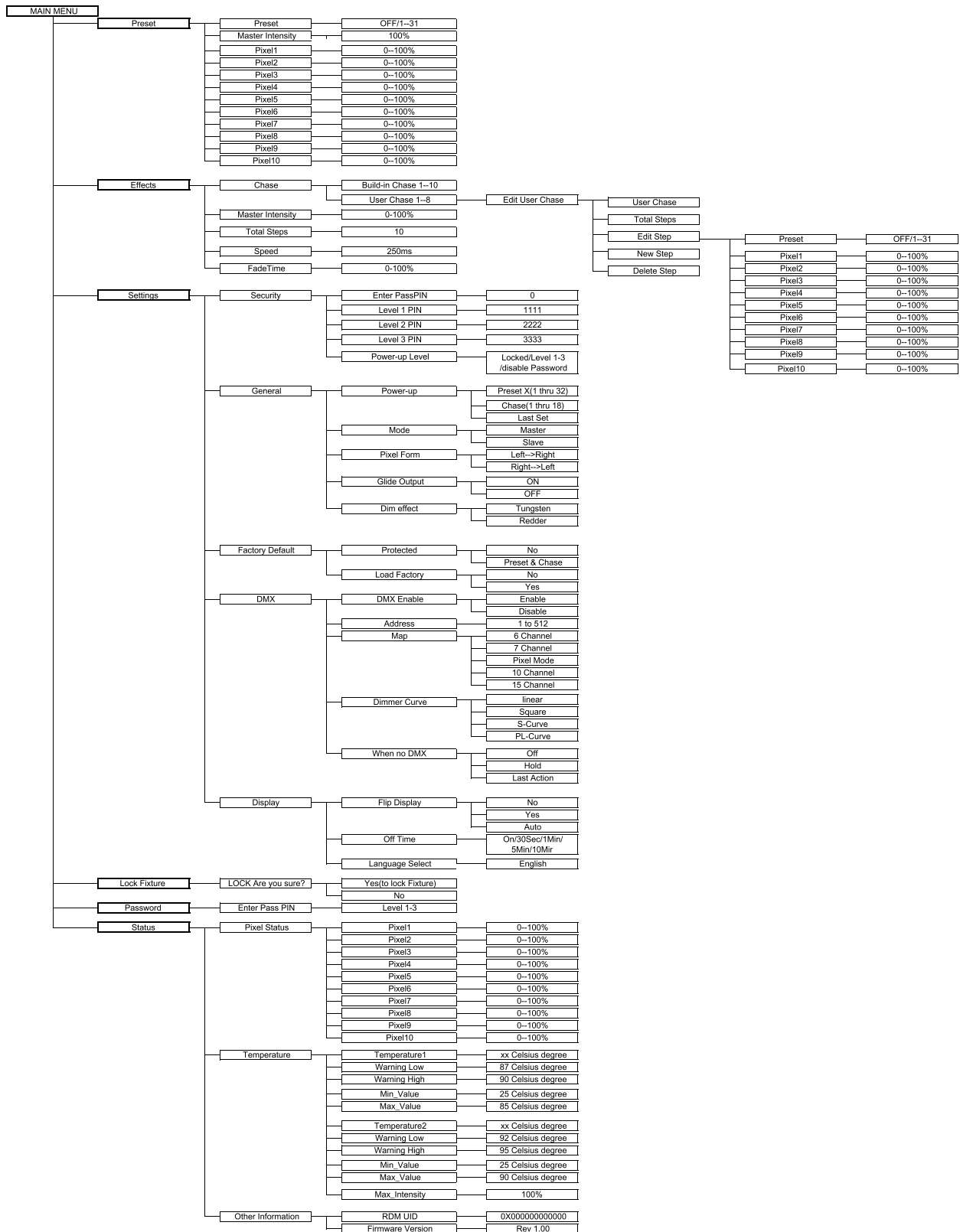
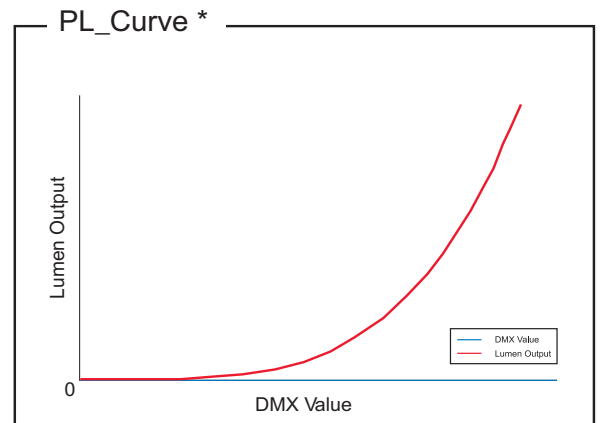
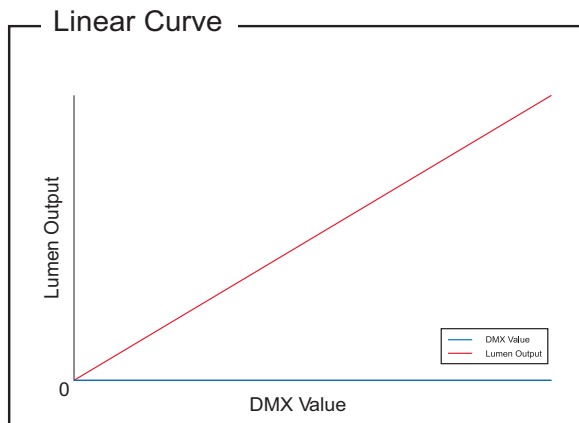


Figure 8: SL SUNLED 10 LED Luminaire Menu Tree

5. Dimming Curve Selection

Through the menu, you are able to select one of four dimming curves:

- Linear Curve
- PL_Curve
- S_Curve
- Square Curve



*PL Curve follows the dimming curve of Philips Selecon PL series LED luminaires.

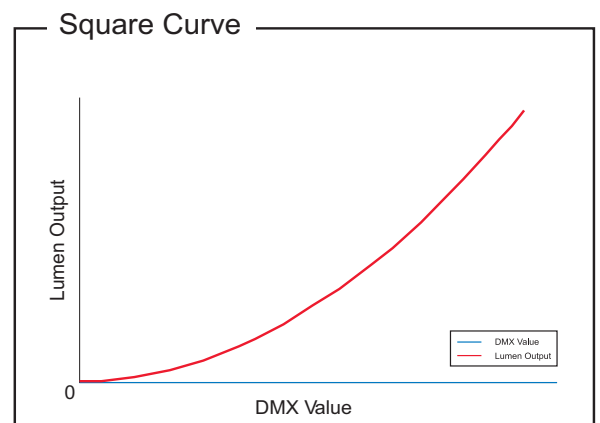
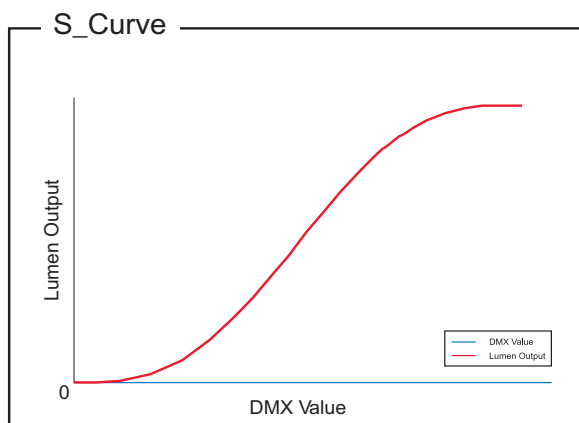


Figure 9: SL SUNLED 10 LED Luminaire Dimmer Curves

6. Master / Slave Operational Mode

The Master / Slave Operational Mode allows one SL SUNLED 10 LED Luminaire to act as the "Master" unit and all other connected units are controlled by this unit. When a unit is set to "Slave" mode, it will only listen to and follow any commands sent from a "Master" unit. Only one "Master" unit is allowed in this type of operation.

To setup a master / slave network:

- Step 1. Set the first device in the DMX512 chain to **Master Mode** through the unit's menu system.
- Step 2. Set all other connected units to **Slave Mode**.
- Step 3. The master unit can be controlled via DMX512, RDM or through standalone operation (self-contained network utilizing on-board effects). The slave units will mimic the master unit's operation in all cases.

Note: For SL SUNLED 10 LED Luminaire DMX Mapping, refer to ["DMX CONTROL" on page 14](#).

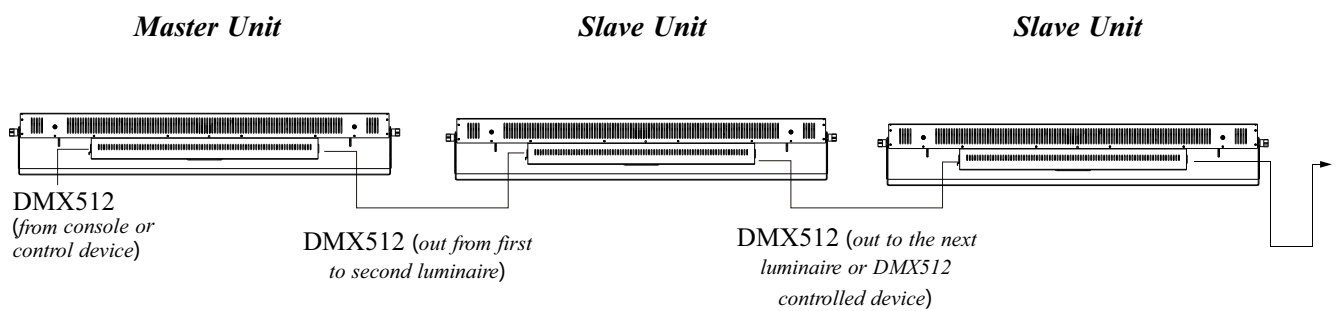


Figure 10: SL SUNLED 10 LED Luminaire - Master / Slave Configuration

DMX CONTROL

1. CHASE

This section contains information for CHASE of the luminaire. The figure below shows the ON/OFF status of each each step thru Program 1-10 for all the LEDs. Detailed Chase Speed please refer to the [SL SUNLED 10 CHASE SPEED DETAILS](#) on page 15.

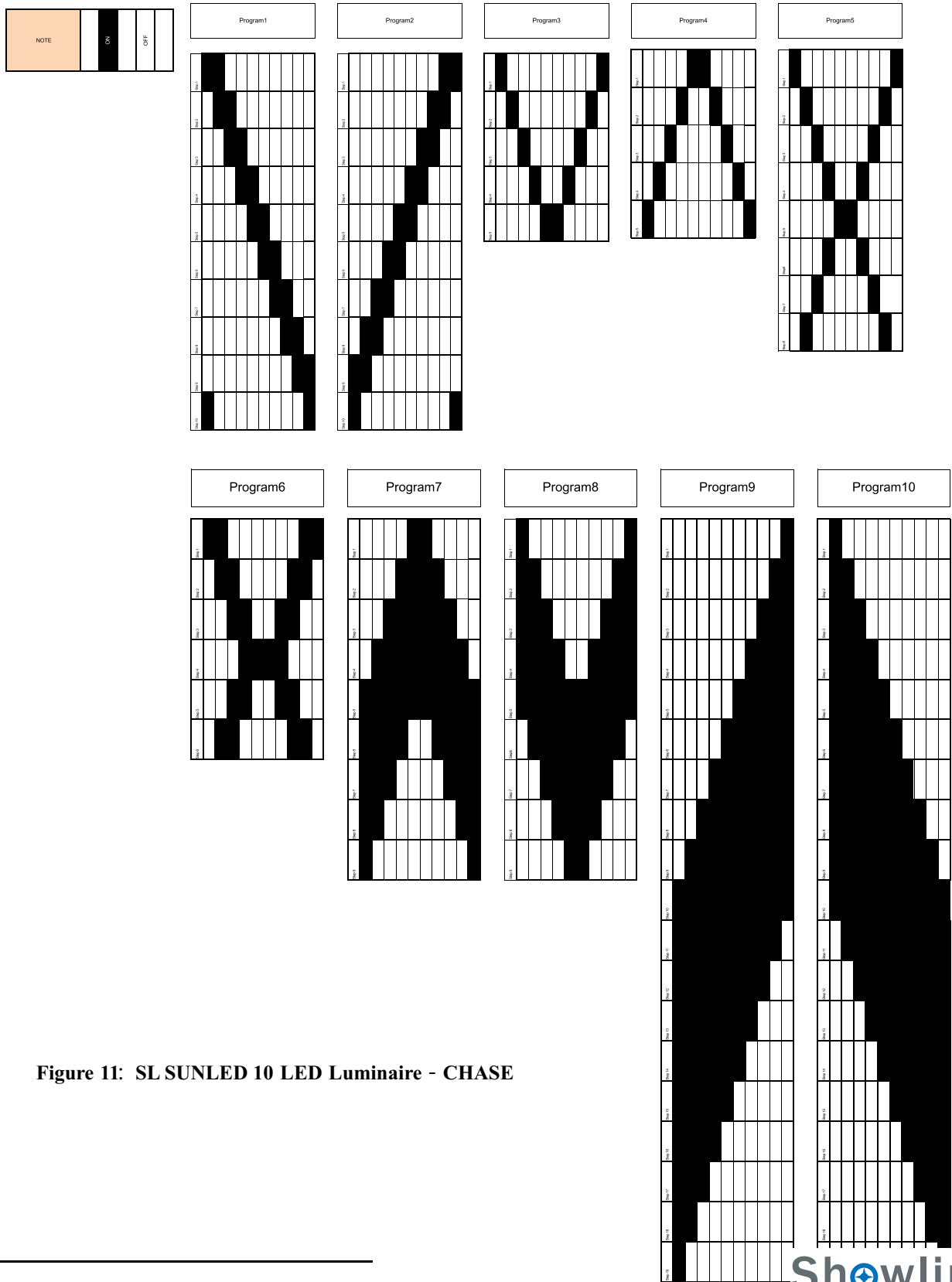


Figure 11: SL SUNLED 10 LED Luminaire - CHASE

2. CHASE SPEED

Table 3 provides Chase Speed details of SL SUNLED 10 LED Luminaire.

Table 3: SL SUNLED 10 LED Luminaire CHASE SPEED Detail

SPEED	TIME(Sec)
1	60s
2	59s
3	58s
4	57s
5	56s
6	55s
7	54s
8	53s
9	52s
10	51s
11	50s
12	49s
13	48s
14	47s
15	46s
16	45s
17	44s
18	43s
19	42s
20	41s
21	40s
22	39s
23	38s
24	37s
25	36s
26	35s
27	34s
28	33s
29	32s
30	31s
31	30s
32	29.5s
33	29s
34	28.5s
35	28s
36	27.5s
37	27s
38	26.5s
39	26s
40	25.5s
41	25s
42	24.5s
43	24s
44	23.5s
45	23s
46	23.5s
47	23s
48	22.5s
49	22s
50	21.5s

SPEED	TIME(Sec)
51	21s
52	20.5s
53	20s
54	19.5s
55	19s
56	18.5s
57	18s
58	17.5s
59	17s
60	16.5s
61	16s
62	15.5s
63	15s
64	14.5s
65	14s
66	13.5s
67	13s
68	13.5s
69	13s
70	12.5s
71	12s
72	11.5s
73	11s
74	10.5s
75	10s
76	9.5s
77	9s
78	8.5s
79	8.0s
80	7.5s
81	7s
82	6.5s
83	6s
84	5.5s
85	5s
86	4.5s
87	4.0s
88	3.5s
89	3.0s
90	2.5s
91	2.0s
92	1.5s
93	1.2s
94	1.0s
95	0.8s
96	0.6s
97	0.4s
98	0.3s
99	0.2s
100	0.1s

3. DMX Map

Table 4 provides all the DMX Map details of SL SUNLED 10 LED Luminaire.

Table 4: SL SUNLED 10 LED Luminaire DMX Channel Mapping (Four Channel Mode)

DMX Channel	15/8bit	10/8Bit	Pixel/8Bit	7/8Bit	6/8Bit
1	Master	Master	LED 1	Master	Master
2	LED 1	LED 1&2	LED 2	LED 1& 5	LED 1&10
3	LED 2	LED 3&4	LED 3	LED 6&10	Program
4	LED 3	LED 5&6	LED 4	Program	Speed
5	LED 4	LED 7&8	LED 5	Speed	FadeTime
6	LED 5	LED 9&10	LED 6	FadeTime	Play Mode
7	LED 6	Program	LED 7	Play Mode	
8	LED 7	Speed	LED 8		
9	LED 8	FadeTime	LED 9		
10	LED 9	Play Mode	LED 10		
11	LED 10				
12	Program				
13	Speed				
14	FadeTime				
15	Play Mode				

4. DMX Detail

Table 5 provides all the DMX Map details of SL SUNLED 10 LED Luminaire.

Table 5: SL SUNLED 10 LED Luminaire DMX Channel Mapping (Four Channel Mode)

Parameter	DMX Range	Range %	Description
Master	0-255	0-100%	Intensity Master
Pixels	0-255	0-100%	Pixel Intensity
Program	0-255	0-100%	DMX value map Function DMX 0-4 Pixel Dimmer DMX 5-9 Preset OFF DMX 10-14 Preset 1 DMX 15-19 Preset 2 DMX 20-24 Preset 3 DMX 25-29 Preset 4 DMX 30-34 Preset 5 DMX 35-39 Preset 6 DMX 40-44 Preset 7 DMX 45-49 Preset 8 DMX 50-54 Preset 9 DMX 55-59 Preset 10 DMX 60-64 Preset 11 DMX 65-69 Preset 12 DMX 70-74 Preset 13 DMX 75-79 Preset 14 DMX 80-84 Preset 15 DMX 85-89 Preset 16 DMX 90-94 Preset 17 DMX 95-99 Preset 18 DMX 100-104 Preset 19 DMX 105-109 Preset 20 DMX 110-114 Preset 21 DMX 115-119 Preset 22 DMX 120-124 Preset 23 DMX 125-129 Preset 24 DMX 130-134 Preset 25 DMX 135-139 Preset 26 DMX 140-144 Preset 27 DMX 145-149 Preset 28 DMX 150-154 Preset 29 DMX 155-159 Preset 30 DMX 160-164 Preset 31 DMX 165-169 Chase 1 DMX 170-174 Chase 2 DMX 175-179 Chase 3 DMX 180-184 Chase 4 DMX 185-189 Chase 5 DMX 190-194 Chase 6 DMX 195-199 Chase 7 DMX 200-204 Chase 8 DMX 205-209 Chase 9 DMX 210-214 Chase 10 DMX 215-219 User Chase 1 DMX 220-224 User Chase 2 DMX 225-229 User Chase 3 DMX 230-234 User Chase 4 DMX 235-239 User Chase 5 DMX 240-244 User Chase 6 DMX 245-249 User Chase 7 DMX 250-255 User Chase 8
Speed	0-255	0-100%	Control program run speed. The smaller , the slower. The larger , the faster.
FadeTime	0-255	0-100%	Control program FadeTime. DMX 0-100% Map 0-100%Fadetime
Play Mode	Play Mode	Play Mode	Control chase play DMX 0-80 Stop DMX 81-160 Pause DMX 161-255 Play

5. SL SUNLED 10 LED Luminaire RDM Parameter IDs

The following tables outline and describe all the RDM parameters IDs associated with SL SUNLED 10 LED Luminaires.

Table 6, “SL SUNLED 10 LED Luminaire RDM Product Parameters IDs”

Table 7, “SL SUNLED 10 LED Luminaire RDM UID”

Table 8, “SL SUNLED 10 LED Luminaire RDM Parameters IDs,”on page18

Table 9, “SL SUNLED 10 LED Luminaire RDM Manufacturer Status IDs,”on page19

Table 10, “SL SUNLED 10 LED Luminaire RDM Manufacturer Specific PIDs for Root Device,”on page 20

Table 6: SL SUNLED 10 LED Luminaire RDM Product Parameters IDs

Model ID	Manufacturer	Model Description	Product Category
0x1200	Showline	SL SUNLED 10	0x0509

Table 7: SL SUNLED 10 LED Luminaire RDM UID

UID					
MSB of ESTA 29H	LSB of ESTA B4H	MSB OF Unique Seq.	LSB of Unique Seq.	MSB of Unique Seq.	LSB of Unique Seq.

Table 8: SL SUNLED 10 LED Luminaire RDM Parameters IDs

Get Allowed	Set Allowed	RDM Parameter IDs	Value	Comment	Implemented
<i>Category - Network Management</i>					
		DISC_UNIQUE_BRANCH	0x0001		■
		DISC_MUTE	0x0002		■
		DISC_UN_MUTE	0x0003		■
■		PROXIED_DEVICES	0x0010		
■		PROXIED_DEVICES_COUNT	0x0011		
■	■	COMMS_STATUS	0x0015		
<i>Category - Status Collection</i>					
■		QUEUED_MESSAGE	0x0020		■
■		STATUS_MESSAGES	0x0030		■
■		STATUS_ID_DESCRIPTION	0x0031		■
	■	CLEAR_STATUS_ID	0x0032		■
■	■	SUB_DEVICE_STATUS_REPORT_THRESHOLD	0x0033		
<i>Category - RDM Information</i>					
■		SUPPORTED_PARAMETERS	0x0050	<i>Support required only if supporting Parameters beyond the minimum required set.</i>	■
■		PARAMETER_DESCRIPTION	0x0051	<i>Support required for Manufacturer-Specific PIDs exposed in SUPPORTED_PARAMETERS message.</i>	■
<i>Category - Product Information</i>					
■		DEVICE_INFO	0x0060		■
■		PRODUCT_DETAIL_ID_LIST	0x0070		
■		DEVICE_MODEL_DESCRIPTION	0x0080		■
■		MANUFACTURER_LABEL	0x0081		■
■	■	DEVICE_LABEL	0x0082		■
■	■	FACTORY_DEFAULTS	0x0090		■
■		LANGUAGE_CAPABILITIES	0x00A0		
■	■	LANGUAGE	0x00B0		
■		SOFTWARE_VERSION_LABEL	0x00C0		■
■		BOOT_SOFTWARE_VERSION_ID	0x00C1		
■		BOOT_SOFTWARE_VERSION_LABEL	0x00C2		
<i>Category - DMX512 Setup</i>					
■	■	DMX_PERSONALITY	0x00E0		■
■		DMX_PERSONALITY_DESCRIPTION	0x00E1		■
■	■	DMX_START_ADDRESS	0x00F0	<i>Required if device uses a DMX Slot</i>	■
■		SLOT_INFO	0x0120		■
■		SLOT_DESCRIPTION	0x0121		■
■		DEFAULT_SLOT_VALUE	0x0122		
<i>Category - Sensors 0x02xx</i>					
■		SENSOR_DEFINITION	0x0200		■
■	■	SENSOR_VALUE	0x0201		■

Table 8: SL SUNLED 10 LED Luminaire RDM Parameters IDs

Get Allowed	Set Allowed	RDM Parameter IDs	Value	Comment	Implemented
	■	RECORD_SENSORS	0x0202		
<i>Category - Dimmer Settings 0x03xx - FUTURE USE</i>					
<i>Category - Power / Lamp Settings 0x04xx</i>					
■	■	DEVICE_HOURS	0x0400		
■	■	LAMP_HOURS	0x0401		
■	■	LAMP_STRIKES	0x0402		
■	■	LAMP_STATE	0x0403		
■	■	LAMP_ON_MODE	0x0404		
■	■	DEVICE_POWER_CYCLES	0x0405		
<i>Category - Display Settings 0x05xx</i>					
■	■	DISPLAY_INVERT	0x0500		■
■	■	DISPLAY_LEVEL	0x0501		
<i>Category - Configuration 0x06xx</i>					
■	■	PAN_INVERT	0x0600		
■	■	TILT_INVERT	0x0601		
■	■	PAN_TILT_SWAP	0x0602		
■	■	REAL_TIME_CLOCK	0x0603		
<i>Category - Control 0x10xx</i>					
■	■	IDENTIFY_DEVICE	0x1000		■
	■	RESET_DEVICE	0x1001		
■	■	POWER_STATE	0x1010		
■	■	PERFORM_SELFTEST	0x1020		
■		SELF_TEST_DESCRIPTION	0x1021		
	■	CAPTURE_PRESET	0x1030		
■	■	PRESET_PLAYBACK	0x1031		

Table 9: SL SUNLED 10 LED Luminaire RDM Manufacturer Status IDs

Manufacturer Specific messages are in the range of 0x8000 - 0xFFDF. Each Manufacturer-specific Status ID shall have a unique meaning, which shall be consistent across all products having a given Manufacturer ID. See Table B-2, ANSI E1.20- 2010.				
Status ID Message	Value	Data Value 1	Data Value 2	Status ID Description
8100H		00H	00H	ALL OK

Table 10: SL SUNLED 10 LED Luminaire RDM Manufacturer Specific PIDs for Root Device

Get Allowed	Set Allowed	RDM Parameter IDs	Type	Length	Unit	Prefix	Min	Max	Default	Description
<i>Category - Manufacturer Defined PIDs - Range is 0x8000-0xffff (See ANSI E1.20-2010 Standard, Table A-3)</i>										
■	■	8A00H	U8	1	None	None	0	100	100	DIMMER
■	■	8A0CH	U8	1	None	None	0	3	0	DMX FAIL MODE
■	■	8AA0H	U8	1	None	None	0	4	0	Backlight off time
■	■	8AA2H	U8	1	None	None	0	50	0	Power Up Setup
■	■	8A0CH	U8	1	None	None	0	2	0	DMX FAIL MODE
■	■	8AB2H	U8	1	None	None	1	18	1	Chase
■	■	8AB1H	U8	1	None	None	0	31	0	Preset
■	■	8A40H	U8	1	None	None	0	1	0	Link Mode
■	■	8AA1H	U8	1	None	None	0	3	0	Dimming Curve
■	■	8A41H	U8	1	None	None	0	1	0	Lock Fixture
■	■	8AD2H	U8	1	None	None	0	1	0	Glide Output
■	■	8A09H	U8	1	None	None	0	255	255	Chase Speed
■	■	8A0BH	U8	1	None	None	0	100	100	Chase Fadetime
■	■	8AD2H	U8	1	None	None	0	1	0	Pixel Form
■	■	810FH	U8	1	None	None	0	1	0	Dimmer Effect

CLEANING AND CARE



WARNING! All cleaning should be performed with power completely removed from the luminaire. Never remove protective covers when the luminaire is powered. Wear appropriate protective eye wear and gloves when cleaning the luminaire. All service and maintenance, other than described herein, should be performed by a qualified technician or Authorized Service Center.

1. Special Cleaning and Care Instructions

Being a solid-state luminaire, the SL SUNLED 10 LED Luminaire requires very little routine maintenance by the user. This section covers portions of the luminaire that can be removed for cleaning.

Special care when it comes to cleaning front lens assembly. Additional care needs to be taken with the plastic components because they are much easier to scratch or damage than glass.

The following is a list of cleaning materials required to care for your SL SUNLED 10 LED Luminaire:

- Lint free lens tissue
- Lint or powder free gloves
- Reagent grade isopropyl alcohol*
- A mild soap solution.

Note: *Reagent grade isopropyl alcohol is good to use on the SL SUNLED 10 LED Luminaire plastic optics with anti-reflection coatings.

If the lens is still dirty after using isopropyl alcohol, for instance if fingerprints or oil is just redistributed and not cleaned off the optic, then a mild soap and water solution can be used to gently wash the lens. Repeat the cleaning with isopropyl alcohol to eliminate streaks and soap residue.



WARNING! Under no circumstances should ammonia-based cleaners, acetone, or other harsh solvents be used on or near the SL SUNLED 10 LED Luminaire. These types of cleaners or solvents can permanently damage the optics or housings of the fixture.

If you have any questions regarding the use or care of your SL SUNLED 10 LED Luminaire, please contact technical support or your local Authorized Dealer.

2. Front Lens Cleaning

To clean the front lens:

- Step 1. Disconnect luminaire from power and allow to cool completely.
- Step 2. Apply a small amount of reagent grade isopropyl alcohol to lint-free lens tissue.
- Step 3. Wipe all debris, dirt, fingerprints, etc. from lens.
- Step 4. Using a second lint-free lens tissue, wipe off any alcohol residue.

3. Service and Maintenance

For all other service and maintenance issues, please contact your local office or an Authorized Service Center.



WARNING! Disassembly (other than as described herein), alterations, unauthorized service, etc. will void the product warranty. Contact your local office or an Authorized Service Center for technical support and service.

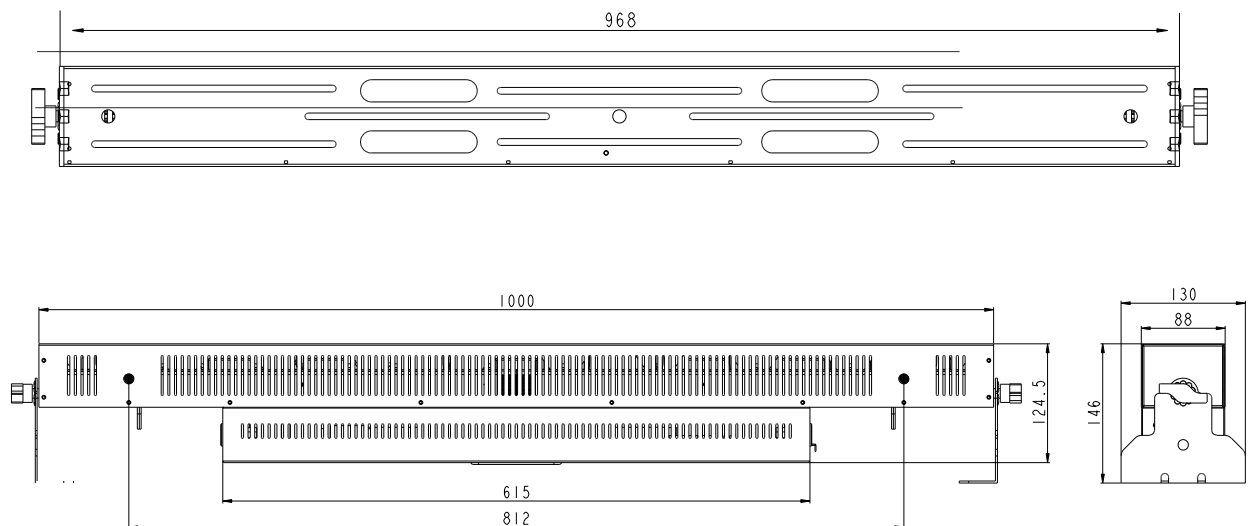
TECHNICAL SPECIFICATIONS

1. SL SUNLED 10 LED Luminaire Operational Specifications

Source:	WW LED Array
Beam Angle:	16 Degrees
Light Output:	> 6,000 lumens
Color Temperature:	2700K
Input Voltage (AC):	100V to 240V (+/- 10%, auto-ranging)(120V, 50/60Hz is for US and Canada Only)
Current (AC):	1.5 Amps (100V) / 0.62 Amps (240V)
Frequency:	50/60Hz
Control Protocols:	DMX512(1990) / RDM / On-Board Menu
Ambient Temperature:	-20 to 40 Degrees C (-4 to 104 Degrees F)
Humidity:	5%-95% Non condensing
Cooling:	Convection cooling
Housing:	Sheet Metal with Powder Coating
Compliance:	CE Marked (International models)
IP Rating:	IP20
Net Weight:	8.8Kg

Note: Common model specifications shown. For specific model specifications, features, and accessories, refer to the product specification sheet for more details.

2. SL SUNLED 10 LED Luminaire Dimensions



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